

Novvi™ Ecolabel Hydraulic Fluid

ISO 32/46/68

High Performance Synthetic
Renewable Lubricant



Novvi™ Hydraulic Oil is the first renewable and biodegradable hydraulic fluid that is formulated to meet both Ecolabel and Denison HF-0 Performance requirements. It is produced from NovaSpec Base Oils, which are composed of specific, highly desirable hydrocarbon molecules. The base oil imparts a novel combination of performance and environmental characteristics into the finished fluid. The additive package is optimized to satisfy a wide range of industrial and heavy-duty hydraulic equipment requirements. This product is formulated with highly effective ashless inhibitors to control oxidation, wear, corrosion and rust. A high viscosity index and low pour point allow for product use over a wider temperature range than most conventional hydraulic oils.

HIGHLIGHTS

FEATURES	BENEFITS
Exceptional anti-wear performance	Prevents wear of internal components, reduces system downtime, and extends equipment life
Outstanding thermal stability and resistance to oxidation	Extends service life even under high temperature
High viscosity index	Allows improved system operation over a wide temperature range
Excellent water separation properties	Minimizes the formation of emulsions to decrease downtime and maintain lubricant life
Low pour point	Can be used in very cold environments
High purity renewably-sourced synthetic hydrocarbon base oil	High performance and drop-in compatibility for mineral oil replacement, reducing dependence on petroleum
Ecolabel and VGP	Biodegradable and non-toxic to reduce environmental impact in case of leaks or spills
High Shear Stability	Minimal loss of viscosity in service

APPLICATIONS

- Mobile construction equipment
- Forestry & Agriculture equipment
- Off-shore equipment
- Mining equipment
- Marine applications requiring VGP

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SPECIFICATIONS

PERFORMANCE WILL MEET OR EXCEED

Parker Hannifin Hydraulics HF-0, HF-1, HF-2; Eaton Vickers Brochure 03-401-2010 (M-2950-S and I-865-S); Fives Group P-68 and P-70; DIN 51524 Part 2, Anti-wear hydraulic Oils; AIST 127

USDA BioPreferred: % of biobased content will satisfy requirements for USDA BioPreferred Program EcoLabel, VGP 2013 (Clean Water Act)

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	ISO 32	ISO 46	ISO 68
Viscosity, cSt @ 40°C	ASTM D445	32	46	68
Viscosity, cSt @ 100°C	ASTM D445	6.1	7.9	10.8
Viscosity Index	ASTM D2270	131	157	156
Density @15°C (g/mL)	ASTM D4052	0.83	0.84	0.85
Pour Point, °C	ASTM D97	-42	-45	-39
Flash Point, °C	ASTM D92	242	242	245
Copper Corrosion	ASTM D130	1B	1B	1B
Oxidative Stability	ASTM D943, 1000 hr	Pass	Pass	Pass
Demulsibility	ASTM D1401, 30 min	40-40-0	40-40-0	40-40-0
Rust	ASTM D665B	Pass	Pass	Pass
FZG, Fail Stage	ASTM D5182	12	12	12

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.



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